


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention	RADIO COMMUNICATION SYSTEM EMPLOYING SPECTRAL REUSE TRANSCEIVERS																																																																		
<p>Application Number: 10/730753 </p> <p>Confirmation Number: 4480</p> <p>First Named Applicant: R SAUNDERS</p> <p>Attorney Docket Number: 70426</p> <p>Art Unit: 2681 2616</p> <p>Examiner: UNKNOWN-UNKNOWN R. Jain</p> <p>Search string: (20040077366 or 20040047324 or 20030181213 or 20030050012 or 20020085503 or 20020002052).pn.</p> <p>US Published Applications</p> <p>Note: Applicant is not required to submit a paper copy of cited US Published Applications</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Pub. No.</th><th>Date</th><th>Applicant</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>20040077366</td><td>2004-04-22</td><td>PANASIK ET AL</td><td></td><td>455</td><td>514</td></tr><tr><td><input type="checkbox"/></td><td>2</td><td>20040047324</td><td>2004-03-11</td><td>DIENER</td><td></td><td>370</td><td>338</td></tr><tr><td><input type="checkbox"/></td><td>3</td><td>20030181213</td><td>2003-09-25</td><td>SUGAR ET AL</td><td></td><td>455</td><td>454</td></tr><tr><td><input type="checkbox"/></td><td>4</td><td>20030050012</td><td>2003-03-13</td><td>BLACK ET AL</td><td></td><td>455</td><td>62</td></tr><tr><td><input type="checkbox"/></td><td>5</td><td>20020085503</td><td>2002-07-04</td><td>HULYALKAR ET AL</td><td></td><td>370</td><td>252</td></tr><tr><td><input checked="" type="checkbox"/></td><td>6</td><td>20020002052</td><td>2002-07-03</td><td>MCHENRY</td><td></td><td>455</td><td>447</td></tr></tbody></table> <p>Signature</p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td>R. Jain</td><td>5-24-07</td></tr></tbody></table>								init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	20040077366	2004-04-22	PANASIK ET AL		455	514	<input type="checkbox"/>	2	20040047324	2004-03-11	DIENER		370	338	<input type="checkbox"/>	3	20030181213	2003-09-25	SUGAR ET AL		455	454	<input type="checkbox"/>	4	20030050012	2003-03-13	BLACK ET AL		455	62	<input type="checkbox"/>	5	20020085503	2002-07-04	HULYALKAR ET AL		370	252	<input checked="" type="checkbox"/>	6	20020002052	2002-07-03	MCHENRY		455	447	Examiner Name	Date	R. Jain	5-24-07
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FORM PTO-1449
LIST OF PATENTS AND
APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: 70426

SERIAL NO.: 10/730753

FILING DATE: 12/08/2003

APPLICANT: Saunders et al.

GROUP: -2601 2616

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING IF APPROPRIATE
RA	AA	5040338	08/13/1991	COMROE ET AL	455	13	
	AB	5475677	12/12/1998	ARNOLD ET AL	370	29	
	AC	2478866	12/12/1995	ROTHENBERG	455	33.1	
	AD	5988810	12/7/1999	GILBERT ET AL	455	448	
	AE						

FOREIGN PATENT DOCUMENTS

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OTHER ART

(Including Author, Title, Date, Pertinent Pages, etc.)

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<i>PL</i>	A	2002/0002052	01/03/2002	McHenry	455	447	
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes -- No
AB					

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<u>R</u>	A C		Cherubini, Giovanni, <u>Filtered Multitone Modulation for Very High-Speed Digital Subscriber Lines</u> , IEEE, Vol. 20, No. 5, June 2002, pp. 1016-1028.
	A D		Vangelista, Lorenzo, <u>Efficient Implementations and Alternative Architectures for OFDM-OQAM Systems</u> , IEEE members, pp. 1-15.
	A E		Dick, Chris, <u>Implementation of FPGA Signal Processing Datapaths for Software Defined Radios</u> , Communications Design China, Conference Proceedings, pp/ 241-247
	A F		Andraka, Ray, <u>A Survey of CORDIC Algorithms for FPGA Based Computers</u> , Andrade Consulting Group, 10 pages.
	A G		Moonen, Marc, <u>Per Tone Equalization for DMT Receivers</u> , Globecom, Rio de Janeiro, Brazil, December 1999, 6 pages.
	A H		Wang, Kai, <u>Time and Frequency Synchronisation in OFDM</u> , School of Communications and Informatics, Victoria University, Melbourne, Australia, 2 pages.
	A I		Zhou, Shengli, <u>Finite-Alphabet Based Channel Estimation for OFDM and Related Multicarrier Systems</u> , IEEE, Vol. 49, No. 8, August 2001, pp. 1402-1414.
	A J		Lee, Donghoon, <u>A New Symbol Timing Recovery Algorithm for OFDM Systems</u> , IEEE, 1997, pp. 366-367.
	A K		van de Beek, Jan-Jaap, <u>ML Estimation of Time and Frequency Offset in OFDM Systems</u> , IEEE, Vol. 45, No. 7, July 1997, pp. 1800-1805.
	A L		Wyglinski, Alexander M., <u>Adaptive Filterbank Multicarrier Wireless Systems for Indoor Environments</u> , Proc. 56 th IEEE Vehicular Tech Conf. (Vancouver, BC), September 2002, pp. 336-340.
<u>✓</u>	A M		Saulnier, Gary J., <u>Performance Of An OFDM Spread Spectrum Communications System Using Lapped Transforms</u> , IEEE, 1997, 5 pages.

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	A O	Ohm, Michael, <u>Extended Lapped Transforms for Digital Multicarrier Modulation</u> , Globecom, IEEE 25-29, November 2001, pp. 217-221
	A P	Saulnier, Gary J. <u>Performance of a Spread Spectrum OFDM System in a Dispersive Fading Channel with Interference</u> , IEEE, 1998, 5 pages.
	A Q	Weiss, Stephan, <u>Fast Implementation of Oversampled Modulated Filter Banks</u> , Dept. of Electronics, University of Southampton, 4 pages.
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	A S	Eneman, Koen, <u>Para-Unitary Filter Bank Design for Oversampled Subband Systems</u> , December 1997, rev. July 1998, 31 pages.
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	A X	Heller, Peter, <u>A General Formulation of Modulated Filter Banks</u> , IEEE, Vol. 47, No. 4, April 1999, pp. 986-1002.
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	B C	Doan Vo, Nguyen, <u>Optimal Interpolators for Flexible Digital Receivers</u> , McGraw University, 4 pages.
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APPLICANT: Saunders et al.

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B E	Barbarossa, Sergio, <u>Channel-Independent Synchronization of Orthogonal Frequency Division Multiple Access Systems</u> , IEEE, Vol. 20, No. 2, February 2002, pp. 474-486.
B F	Speth, Michael, <u>Frame Synchronization of OFDM Systems in Frequency Selective Fading Channels</u> , 5 pages.
B G	Müller, Stefan, <u>Comparison of Preamble Structures for Burst Frequency Synchronization</u> , Globecom, San Francisco, CA, November 2000, pp. 1488-1493.
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B I	Zhou, Shengli, <u>Digital Multi-Carrier Spread Spectrum Versus Direct Sequence Spread Spectrum for Resistance to Jamming and Multipath</u> , IEEE, Vol. 50, No. 4, April 2002, pp. 643-655.
B J	Lambrette, Uwe, <u>Techniques for Frame Synchronization on Unknown Frequency Selective Channels</u> , 5 pages.
B K	Classen, Ferdinand, <u>Frequency Synchronization Algorithms for OFDM Systems Suitable for Communication Over Frequency Selective Fading Channels</u> , IEEE, 1994, pp. 1655-1659.
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B M	Gardner, Floyd, <u>A BPSK/QPSK Timing-Error Detector for Sampled Receivers</u> , IEEE, Vol. COM-34, No. 5, May 1986, pp. 423-429.
B N	Johansson, Stefan, <u>Silicon Realization of an OFDM Synchronization Algorithm</u> , Department of Applied Electronics, Sweden, 4 pages.
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B P	Schafhuber, Dieter, <u>Pulse-Shaping OFDM/BFDM Systems For Time-Varying Channels: ISI/ICI Analysis, Optimal Pulse Design, and Efficient Implementation</u> , Vienna University of Technology, 5 pages.
B Q	Pfletschinger, Stephan, <u>Optimized Impulses for Multicarrier Offset-QAM</u> , Globecom, IEEE 25-29, November 2001, Vol. 1, page 207-211.
B R	Schafhuber, Dieter, <u>Pulse-Shaping OFDM/BFDM Systems For Time-Varying Channels: ISI/ICI Analysis, Optimal Pulse Design, and Efficient Implementation</u> , Vienna University of Technology, 5 pages.
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B T	Vahlin, Anders, <u>Optimal Finite Duration Pulses for OFDM</u> , IEEE, Vol. 44, No. 1, January 1996, pp. 10-14.
B U	van de Beek, Jan-Jaap, <u>Synchronization of a TDMA-OFDM Frequency Hopping System</u> , IEEE 1998, 6 pages.

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28	B V	Zyren, Jim, <u>Tutorial on Basic Link Budget Analysis</u> , Intersil, June 1998, pp. 1-8.
	B W	Gardner, Floyd M. <u>Interpolation in Digital Modems - Part I: Fundamentals</u> , IEEE, Vol. 41, No. 3, March 1993, pp. 501-507.
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	B Y	Moonen, Marc, <u>Digital Signal Processing II - Lecture 7: Maximally Decimated Filter Banks Oversampled Filter Banks</u> , pp. 1-40.
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	C B	Miaoudakis, Andreas, <u>An All-Digital Feed-Forward CFO Cancellation Scheme for Hiperlan/2 in Multipath Environment</u> , IEEE 2002, 5 pages.
	C C	Müller, Stefan H., <u>Comparison of Preamble Structures for Burst Frequency Synchronization</u> , Globcom, San Francisco, CA, November 2000, pp. 1488-1493.
	C D	Ma, Xiaoli, <u>Non-Data-Aided Frequency-Offset and Channel Estimation in OFDM and Related Block Transmissions</u> , IEEE 2001, pp. 1866-1870.
	C E	Pompili, Massimiliano, <u>Channel-Independent Non-Data Aided Synchronization of Generalized Multiuser OFDM</u> , IEEE 2001, pp. 2341-2344.
	C F	Kim, Ki Yun, <u>Symbol Frame Synchronization Technique for OFDM Burst Mode Transmission</u> , Sungkyunkwan University, 4 pages.
	C G	Kim, Yun Hee, <u>An Efficient Frequency Offset Estimator for OFDM Systems and Its Performance Characteristics</u> , IEEE, Vol. 50, No. 5, September 2001, pp. 1307-1312.
	C H	Langfeld, Patrick, <u>OFDM System Synchronization for Powerline Communications</u> , University of Karlsruhe, 8 pages.
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	C J	Keller, Thomas, <u>Orthogonal Frequency Division Multiplex Synchronization Techniques for Frequency-Selective Fading Channels</u> , IEEE, Vol. 19, No. 6, June 2001, pp. 999-1008.
	C K	Gallardo, Ana, <u>A Preamble Based Carrier Frequency Estimation Approach for B-FWA OFDM Systems</u> , Advanced Modulation and Coding Area, Development Programmes Department, Greece, 5 pages.
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RM	C M	Tufvesson, Fredrik, <u>Time and Frequency Synchronization for OPDM using PN-Sequence Preambles</u> , IEEE Vehicular Technology Conference, Amsterdam, The Netherlands, September, 1999, pp. 1-5.
I	C N	Tufvesson, Fredrik, <u>Time and Frequency Synchronization for BRAN using PN-Sequence Preambles</u> , Radio Science and Communication, Karlskrona, Sweden, June 14-17, 1999, pp. 1-5.
↓	C O	Litwin, Louis, <u>The Principles of OFDM</u> , RF Signals Processing, January 2001, pp. 30-48

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